

## -- REQUEST-

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For rece
•
International Application No.
International Filing Date
;
Name of receiving Office and "PCT International Application"

	Applicant's or agent's	£1f					
	(if desired) (12 charact	ers maximum) P071994WO/NPS					
Box No. I TITLE OF INVENTION  Longitudinal Load Varying Device for Elongate N	Members						
Box No. II APPLICANT This person	is also inventor						
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this  Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)							
The Engineering Business Limited		Facsimile No.					
Broomhaugh House Riding Mill		Teleprinter No.					
Northumberland NE44 6EG							
United Kingdom		Applicant's registration No. with the Office					
State (that is, country) of nationality: GB	State (that is, country) GB	of residence:					
		the United States of America only the States indicated in the Supplemental Box					
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	ER) INVENTOR(S)						
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  Grinsted, Timothy William  Beaumont House  This person is:  applicant only  applicant and inventor							
Stocksfield Northumberland NE43 7TN	ļ	inventor only (If this check-box is marked, do not fill in below.)					
United Kingdom		Applicant's registration No. with the Office					
State (that is, country) of nationality: GB	State (that is, country) GB	of residence:					
This person is applicant for the purposes of:  all designated the United States  all designated the United States		the United States in the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated or	n a continuation sheet.						
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR	CORRESPONDENCE					
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a	as:	agent common representative					
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include posta code and name of country.)  Telephone No. +44 (0) 113 233 0100							
Harrison Goddard Foote Belgrave Hall	Facsimile No. +44 (0) 113 233 0101						
Belgrave Street LEEDS, LS2 8DD	ļ	Teleprinter No.					
Agent's registration No. with the							
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.							

Box No. V	DESIGNA	ATION C	)F STATES

The following designations are hereby made under Rule 4.9(a):

Mark the applicable check-boxes below; at least one must be marked.

Regional Patent 🔣 AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan,

- SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired,
- 🖪 EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- 🔀 OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind

	National Patent (if other kind of protection or treatment desired, specify on dotted line):								
X	AE United Arab Emirates	X	HR	Croatia	K	ON	I Oman		
X	AG Antigua and Barbuda	X	HU	Hungary	X	PG	Papua New Guinea		
	AL Albania						Philippines		
	AM Armenia								
X	AT Austria	X	IN	India	M	PT	Portugal		
X	AU Australia	X	IS	Iceland	X	RO	Romania		
X	AZ Azerbaijan	X	JP	Japan	X	RU	Russian Federation		
X	BA Bosnia and Herzegovina		KE	Kenya					
	BB Barbados			Kyrgyzstan			Seychelles		
X	BG Bulgaria	X	KР				Sudan		
	BR Brazil			of Korea					
	BY Belarus								
• •	BZ Belize	-							
-	CA Canada	=		Saint Lucia	_		Sierra Leone		
=	CH & LI Switzerland and Liechtenstein			_	_		Syrian Arab Republic		
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_	CO Colombia				-		Turkmenistan		
	CR Costa Rica						Tunisia		
	CU Cuba						Turkey		
	CZ Czech Republic				X	TT	Trinidad and Tobago		
	DE Germany				_				
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	DM Dominica								
	DZ Algeria								
X	EC Ecuador	×	MK	-		US	United States of America		
X	EE Estonia			Macedonia					
X							Uzbekistan		
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	GD Grenada			Mozambique					
	GE Georgia						South Africa		
	GH Ghana						Zambia		
X	GM Gambia	X	ΝZ	New Zealand	X	ZW	Zimbabwe		
C	hade haves below reserved for designation	Ctat		high house become porty to the DCT -	<b>A</b> ~~		and of this shoet.		
	heck-boxes below reserved for designating  1. EG. Egypt								
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9 (b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.) ١

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Sheet	Nο	3

Box No. VI PRIORITY CLAIM								
The priority of the following earlier application(s) is hereby claimed:								
Filing date	Number	Where earlier application is:						
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office				
item (1) 1 November 2002 (01-11-02)	0225496.9	GB						
item (2)	·							
item (3)								
item (4)			·					
item (5)								
Further priority claims	are indicated in the Suppleme	ental Box.						
	ested to prepare and transmit filed with the Office which for		tional application is the r	eceiving Office) identified  other, see				
* Where the earlier applicati	ion is an ARIPO application, in	ndicate at least one country	party to the Paris Conve	Supplemental Box				
Industrial Property or one M	Member of the World Trade Or	ganization for which that e						
Box No. VII INTERNAT	TIONAL SEARCHING AUT	THORITY						
Choice of International Se international search, indicate	arching Authority (ISA) (if to the Authority chosen; the two	wo or more International S -letter code may be used):	earching Authorities are	competent to carry out the				
ISA /				• • • • • • • • • • • • • • • • • • • •				
Request to use results of ea	arlier search; reference to the nority):	hat search <i>(if an earlier se</i>	arch has been carried ou	t by or requested from the				
Date (day/month/year)	Numb	er Coun	try (or regional Office)					
Box No. VIII DECLARA	TIONS							
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable  Number of check-boxes below and indicate in the right column the number of each type of declaration):  Number of declarations								
Box No. VIII (i)	Box No. VIII (i) Declaration as to the identity of the inventor :							
Box No. VIII (ii)  Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:								
Box No. VIII (iii)  Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application:								
Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America):								
Box No. VIII (v)	Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty :							

<b>.</b> .			4	
Sheet	NO.		-	

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contain  (a) in paper form, the following num sheets:		item(s)	ernational application is accompanied by the following (mark the applicable check-boxes below and indicate in lumn the number of each item):	Number of items		
request (including		· ·	fee calculation sheet	: 1		
declaration sheets) :	4	2. 🔲	original separate power of attorney	:		
description (excluding sequence listings and/or		3. 🔲	original general power of attorney	:		
tables related thereto) :	11	4. 🗶	copy of general power of attorney; reference number, if any:	: 2		
claims :	5	5. 🗆	statement explaining lack of signature			
abstract :	1	_	priority document(s) identified in Box No. VI as	•		
drawings :	4	0.	item(s):	:		
Sub-total number of sheets: sequence listings:	25	7.	translation of international application into (language):	:		
tables related thereto :  (for both, actual number of		8. 🗖	separate indications concerning deposited microorganism or other biological material	:		
sheets if filed in paper form, whether or not also filed in		9. 🗖	sequence listings in computer readable form (indicate type and number of carriers)			
computer readable form; see (c) below)		(i)	copy submitted for the purposes of international search Rule 13ter only (and not as part of the international apple	under lication) :		
Total number of sheets :  (b) only in computer readable for	25 orm	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left column additional copies including, where applicable, the copy purposes of international search under Rule 13ter			
(Section 801(a)(i)) (i) sequence listings		(iii)	together with relevant statement as to the identity of the copies with the sequence listings mentioned in left column	copy or		
(ii) ☐ tables related thereto (c) ☐ also in computer readable fo	rm	10.	tables in computer readable form related to sequence listing (indicate type and number of carriers)			
(Section 801(a)(ii))  (i) sequence listings  (ii) tables related thereto  (ii) tables related thereto  (iii) tables related thereto				under ational		
Type and number of carriers (diskette,  (ii)  (ii)  (only where check-box (b)(ii) or (c)(ii) is marked in left column)  additional copies including, where applicable, the copy for the				for the		
contained the purposes of international search under Section 802(b-quater) :    sequence listings:						
daditional copies to be indicated uitems 9(ii) and/or 10(ii), in right co	nder	11. 🗶	other (specify): cover letter, UK.Fee Sheet, Form 23/77	· :		
Figure of the drawings which should accompany the abstract:	4		ge of filing of the English			
Box No. X SIGNATURE OF AP	PLICANT	, AGEN	OR COMMON REPRESENTATIVE	reading the request).		
Next to each signature, judicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).  Sanderson, Nigel Paul Harrison Goddard Foote						
		— For re	ceiving Office use only			
Date of actual receipt of the purpor	rted		-	Drawings:		
international application:			-	7 received.		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
4. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid						
		For Intern	national Bureau use only			
Date of receipt of the record copy by the International Bureau:						
		<del></del>				

**PCT** 

## FEE CALCULATION SHEET Annex to the Request

For receiving (	onice use only	
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nternational Application No.		

Annex to the Request		International Application No.		
	plicant's or agent's reference	P071994WO/NPS	Date stamp of the receiving Office	
Ap	plicant			
T	he Engineering Bu			
	LCULATION OF PRES			
1.	TRANSMITTAL FEE .		£55.00 T	
2.	SEARCH FEE		£640.00 S	
	International search to be (If two or more International search, indicate the name of	carried out by I Searching Authorities are competent to carry or the Authority which is chosen to carry out the in	ut the international sternational search.)	
3.	INTERNATIONAL FEE Basic Fee		·	
	Where items (b) and/or (c) Where items (b) and (c) c	e) of Box No. IX apply, enter Sub-total nu of Box No. IX do not apply, enter Total nu	mber of sheets J	
	bl first 30 sheets	<b></b>	£278.00 b1	
	b2	x fee per sheet	b2	
	thereto are filed in o	ont (only if sequence listings and/or tables and on tables and on tables are on the section 801	related FAXED CON	FIRMATION
	or both in that form	and on paper, under Section 801(a)(ii)):  400 x =	b3	
	A 4 4 1 4 4 4 1 4 4 4 1 4 4 4 4	tee per sheet o1, b2 and b3 and enter total at B	£278.00 B	
		or, be and by and enter total at B		
	Designation Fees The international applica	tion contains <u>all</u> designations.		
	5	<sub>x</sub> £60.00 =	£300.00 D	
	number of designation for payable (maximum 5)	ees amount of designation fee		
	Add amounts entered at E	B and D and enter total at I	£578.00 [1]	
	(Applicants from certain international fee. Where the	States are entitled to a reduction of 75: e applicant is (or all applicants are) so entitlea f the sum of the amounts entered at B and D	% of the l, the total .)	
4.		OCUMENT (if applicable)	£22.00 P	
5.	TOTAL FEES PAYABL		£1295.00	
	Add amounts entered at T	, S, I and P, and enter total in the TOTAL I	oox Lovies	
	The designation fees ar	e not paid at this time.		<u></u>
M	DDE OF PAYMENT			
X	authorization to charge deposit account (see belo	ow) postal money order [	cash coupons	
	cheque	bank draft	revenue stamps other (spec	ifs):
AU (Th	THORIZATION TO CH is mode of payment may no	HARGE (OR CREDIT) DEPOSIT ACCO to the available at all receiving Offices)	Receiving Office: RO/	
Þ	Authorization to abore	the total fees indicated above.	Deposit Account No.: D02	2973
X		narked only if the conditions for deposit accou	Date: <b>31 November</b> 20	
Ā	of the receiving Office so	permit) Authorization to charge any deficient ent in the total fees indicated above.	Name: Harrison Godda	ard Foote
X	Authorization to charge	the fee for priority document.	Signature: N740 Jan	~

Form PCT/RO/101 (Annex) (January 2003; reprint July 2003)

See Notes to the fee calculation sheet